

PATENT ABSTRACTS OF JAPAN

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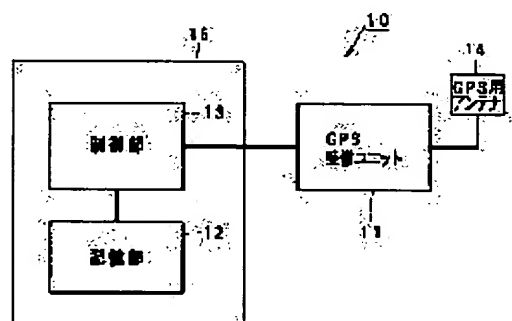
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(54) INFORMATION SELECTION DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To avoid troublesome cases where the information attendant at each region is set again at the relevant region.

SOLUTION: An information selection device 10 is provided on an automobile to select the information attendant on every region and consists of a global positioning system(GPS) receiving unit 11 which recognizes the automobile position, a storage part 12, which stores an information table where the information attendant on every region is set, and a control part 13 which selects the information accompanying the region corresponding to the automobile position that is recognized by the unit 11.



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CLAIMS

[Claim(s)]

[Claim 1] A location recognition means to be information selection equipment which selects the information with which a mobile is equipped, and which accompanies an area, and to recognize the location of the above-mentioned mobile, A storage means to store the information table on which the information which accompanies an area was set up for every every place region, Information selection equipment characterized by having the control means which selects the information which accompanies the above-mentioned area corresponding to the location of the above-mentioned mobile from ***** and the above-mentioned location recognition means on the above-mentioned information table memorized by the above-mentioned storage means.

[Claim 2] Information selection equipment according to claim 1 characterized by the information which accompanies the above-mentioned area being the frequency of the broadcasting station installed for every area which broadcasts the content of the same sequence.

[Claim 3] Information selection equipment according to claim 1 or 2 with which information which accompanies the above-mentioned area is characterized by being the access point of the provider of the Internet.

[Claim 4] Information selection equipment according to claim 1 to 3 characterized by the information which accompanies the above-mentioned area being the time in the area in which a mobile is located.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] Mobiles, such as an automobile, move and this invention relates to the information selection equipment which selects the frequency of the broadcasting station installed in the area concerned which broadcasts the content of the information which accompanies the area concerned in the area in which it is located, for example, the same sequence.

[0002]

[Description of the Prior Art] There are some in which two or more presetting [tuner / radio]-for example, carbon button with which the automobile etc. was equipped was prepared. In such a radio tuner, with the area an automobile runs, a user can make a presetting carbon button able to respond beforehand, can set up the frequency of a favorite broadcasting station (presetting), and can receive the radio broadcasting from a favorite broadcasting station only by actuation of a specific presetting carbon button.

[0003] However, when an automobile runs a wide area, there is a case where it becomes impossible to receive a favorite radio broadcasting even if it operates a specific presetting carbon button. In this case, in the area in which an automobile is located, a user has to make a specific presetting carbon button have to correspond again, and has to do again the frequency of the broadcasting station (for example, NHK Urawa, NHK Tokyo, and NHK Yokohama --) installed in the area concerned which broadcasts the content (for example, the content of FM broadcasting of NHK (Japan Broadcasting Corporation)) of the same sequence setting out (presetting).

[0004] Or in the area in which the above-mentioned automobile is located, a user does the automatic search of the frequency of the broadcasting station installed in the area concerned which broadcasts the content of the same sequence, selects the broadcasting station of a frequency with high receiving sensibility, has to make a specific presetting carbon button have to correspond, and has to do the frequency of the broadcasting station again setting out (presetting).

[0005]

[Problem(s) to be Solved by the Invention] When mobiles, such as an automobile, move in a wide area, information like the frequency of the broadcasting station installed for every area which broadcasts the content of the same sequence which accompanies an area must be reset up like an above-mentioned radio tuner in the area in which a mobile is located.

[0006] The technical problem of this invention is made in consideration of an above-mentioned situation, and is to offer the information selection equipment which can avoid the complicatedness which resets up the information which accompanies an every place region in the area concerned.

[0007]

[Means for Solving the Problem] A location recognition means to be information selection equipment which selects the information which a mobile is equipped with invention according to claim 1, and accompanies an area, and to recognize the location of the above-mentioned mobile, It has a storage means to store the information table on which the information which accompanies an area was set up for every every place region, and the control means which selects the information which accompanies the above-mentioned area corresponding to the location of the above-mentioned mobile from the above-mentioned location recognition means based on the above-mentioned information table memorized by the above-mentioned storage means.

[0008] Invention according to claim 2 is a frequency of the broadcasting station installed for every area which the information which accompanies the above-mentioned area broadcasts that the content of the same sequence is in invention according to claim 1.

[0009] The information to which invention according to claim 3 accompanies the above-mentioned area in invention according to claim 1 or 2 is the access point of the provider of the Internet.

[0010] Invention according to claim 4 is the time in the area in which the information which accompanies the above-mentioned area is located in a mobile in invention according to claim 1 to 3.

[0011] Invention according to claim 1 to 4 has the next operation.

[0012] Since a control means selects the information corresponding to the location of the mobile recognized with the location recognition means which accompanies an area based on the information table stored in the storage means, the automatic setting of the information which accompanies the area where the mobile moved can be carried out. Consequently, the complicatedness which resets up the information which accompanies an every place region in the area concerned is avoidable.

[0013]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained based on a drawing.

[0014] Drawing 1 is the block diagram showing the gestalt of 1 operation of the information selection equipment concerning this invention. The automobile as a mobile is equipped with the information selection equipment 10 shown in this drawing 1, and it has the GPS (Global Positioning System) receiving unit 11 as a location recognition means, the storage section 12 as a storage means, and the control section 13 as a control means, and is constituted, and the above-mentioned control section 13 and the above-mentioned storage section 12 constitute a control unit 16.

[0015] The above-mentioned GPS receiving unit 11 is connected to the antenna 14 for GPS which receives the GPS signal from a GPS Satellite, and the current position of the automobile it runs is recognized from a GPS signal. The current position of the automobile recognized in the GPS receiving unit 11 is transmitted to a control section 13 by serial communication etc.

[0016] It consists of storage, such as RAM (Random Access Memory), and the above-mentioned storage section 12 stores the information table 15 on which the information which accompanies an area was set up for every every place region divided by the LAT and LONG of predetermined spacing, as shown in drawing 2. In this information table 15, a horizontal list shows the LAT and a vertical list shows LONG.

[0017] The information which accompanies an area is memorized as presetting X-- from Presetting A. Each presetting So that it may be represented by the presetting A shown in drawing 3 on the presetting carbon button AM 1 of AM radio broadcasting The frequency of the broadcasting station of 1 of AM radio broadcasting receivable in the area ("A area" is called below) of LAT 10-15 and LONG 100-105 is set up, and the frequency of other broadcasting stations of AM radio broadcasting receivable in said A areas to presetting AM 2 is set up. The frequency of the broadcasting station of 1 of FM radio broadcasting similarly receivable in A area about FM1 and FM2 and other broadcasting stations is set up, respectively. Moreover, the access point of the provider for accessing the Internet in A area is set to Presetting A, and the time and the name of a country in said A areas are set to it. Furthermore, the language for displaying on the display (un-illustrating) connected to the control section 13 suits A area, and is set to Presetting A.

[0018] The frequency of the broadcasting station set as the presetting carbon button AM 1 of Presetting A and the broadcasting station which broadcasts the content of the same sequence receivable in the area ("B area" is called below) of LAT 10-15 and LONG 105-110 is set to the presetting carbon button AM 1 of Presetting B. Moreover, the frequency of the broadcasting station in B area receivable in B area which broadcasts the content of the same sequence as the broadcasting station set as the presetting carbon button AM 1 of Presetting A is set to the presetting carbon button AM 2 of Presetting B. Furthermore, the frequency of each broadcasting station in B area which broadcasts, respectively that the content of the same sequence is the broadcasting station set as the presetting carbon buttons FM1 and FM2 of Presetting A is similarly set up about the presetting carbon buttons FM1 and FM2 of Presetting B. Furthermore, the access point of the provider of the Internet in this B area, time, the name of a country, and display language are set to this presetting B, respectively. The same is said of the following presetting C-X--.

[0019] Said control section 13 selects and performs the presetting corresponding to the current position of the automobile recognized in the GPS receiving unit 11, for example, Presetting A, Presetting B, etc., based on the information table 15 memorized by the storage section 12.

[0020] Hereafter, an operation of this control section 13 is explained using drawing 4.

[0021] A control section 13 reads first the current position of the automobile recognized in the GPS receiving unit 11 (step 1). Next, a control section 13 judges whether the current position of an automobile is located in A area, when whether it being in the area in the information table 15 on which the current position of this automobile selects the presetting which is carrying out current activation, and current presetting A that is, are performed (step 2).

[0022] When the current position of an automobile is located in the area corresponding to the presetting by which current activation is carried out, a control section 13 continues and performs presetting by which current activation is carried out.

[0023] However, when the current position of an automobile separates from the area corresponding to the presetting by which current activation is carried out (for example, when it goes into B area from A area), a control device 13 selects and performs presetting B corresponding to B area from the information table 15, for example (step 3).

[0024] As mentioned above, since information selection equipment 10 was constituted, the following effectiveness is done so.

[0025] Since a control section 13 selects the information (presetting A-X -- any one) corresponding to the location of the automobile recognized in the GPS receiving unit 11 which accompanies an area based on the information table 15 stored in the storage section 12, the automatic setting of the information which accompanies the area where the automobile moved can be carried out. Consequently, the complicatedness to which a user resets the information which accompanies an every place region in the area concerned is avoidable.

[0026] As mentioned above, although this invention was explained based on the gestalt of 1 operation, this invention is not limited to this.

[0027] For example, mobiles may be transport machines, such as not only an automobile but an aircraft, and a marine vessel. Moreover, although the frequency of the broadcasting station which broadcasts the content of the same sequence between different areas was set as the same presetting carbon button AM 1 and same FM1 -- in different Presetting A and B and different --, the frequency of different presetting A and B and the broadcasting station which broadcasts a content which is different in the same presetting carbon button AM 1 and same FM1 -- in -- may be set up.

[0028]

[Effect of the Invention] As mentioned above, according to the information selection equipment concerning this invention, since the information which accompanies an area selects the information to which the control means accompanied the above-mentioned area corresponding to the location of a mobile based on the information table set up for every every place region, the complicatedness which resets up the information which accompanies an every place region in the area concerned is avoidable.

TECHNICAL FIELD

[Field of the Invention] Mobiles, such as an automobile, move and this invention relates to the information selection equipment which selects the frequency of the broadcasting station installed in the area concerned which broadcasts the content of the information which accompanies the area concerned in the area in which it is located, for example, the same sequence.

PRIOR ART

[Description of the Prior Art] There are some in which two or more presetting [tuner / radio]-for example, carbon button with which the automobile etc. was equipped was prepared. In such a radio tuner, with the area an automobile runs, a user can make a presetting carbon button able to respond beforehand, can set up the frequency of a favorite broadcasting station (presetting), and can receive the radio broadcasting from a favorite broadcasting station only by actuation of a specific presetting carbon button.

[0003] However, when an automobile runs a wide area, there is a case where it becomes impossible to receive a favorite radio broadcasting even if it operates a specific presetting carbon button. In this case, in the area in which an automobile is located, a user has to make a specific presetting carbon button have to correspond again, and has to do again the frequency of the broadcasting station (for example, NHK Urawa, NHK Tokyo, and NHK Yokohama --) installed in the area concerned which broadcasts the content (for example, the content of FM broadcasting of NHK (Japan Broadcasting Corporation)) of the same sequence setting out (presetting).

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EFFECT OF THE INVENTION

[Effect of the Invention] As mentioned above, according to the information selection equipment concerning this invention, since the information which accompanies an area selects the information to which the control means accompanied the above-mentioned area corresponding to the location of a mobile based on the information table set up for every every place region, the complicatedness which resets up the information which accompanies an every place region in the area concerned is avoidable.

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] When mobiles, such as an automobile, move in a wide area, information like the frequency of the broadcasting station installed for every area which broadcasts the content of the same sequence which accompanies an area must be reset up like an above-mentioned radio tuner in the area in which a mobile is located.

[0006] The technical problem of this invention is made in consideration of an above-mentioned situation, and is to offer the information selection equipment which can avoid the complicatedness which resets up the information which accompanies an every place region in the area concerned.

MEANS

[Means for Solving the Problem] A location recognition means to be information selection equipment which selects the information which a mobile is equipped with invention according to claim 1, and accompanies an area, and to recognize the location of the above-mentioned mobile, It has a storage means to store the information table on which the information which accompanies an area was set up for every every place region, and the control means which selects the information which accompanies the above-mentioned area corresponding to the location of the above-mentioned mobile from the above-mentioned location recognition means based on the above-mentioned information table memorized by the above-mentioned storage means.

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[0010] Invention according to claim 4 is the time in the area in which the information which accompanies the above-mentioned area is located in a mobile in invention according to claim 1 to 3.

[0011] Invention according to claim 1 to 4 has the next operation.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the block diagram showing the gestalt of 1 operation of the information selection equipment concerning this invention.

[Drawing 2] It is the graph showing the information table memorized by the storage section of drawing 1.

[Drawing 3] It is the graph showing the content of the presetting in one area of drawing 2.

[Drawing 4] It is the flow chart which shows an operation of the control section of drawing 1.

[Description of Notations]

10 Information Selection Equipment

11 GPS Receiving Unit (Location Recognition Means)

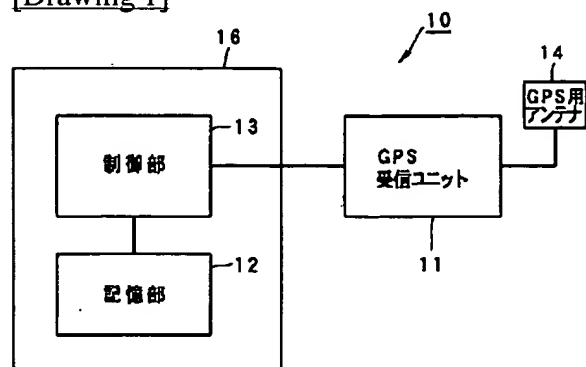
12 Storage Section (Storage Means)

13 Control Section (Control Means)

15 Information Table

DRAWINGS

[Drawing 1]



[Drawing 2]

Figure 2 is a table showing the mapping of latitude ranges to preset names.

緯度	10~15	15~20	20~25	25~30
100~105	プリセット-A	プリセット-G	プリセット-M	プリセット-S
105~110	プリセット-B	プリセット-H	プリセット-N	プリセット-T
110~115	プリセット-C	プリセット-I	プリセット-O	プリセット-U
115~120	プリセット-D	プリセット-J	プリセット-P	プリセット-V
120~125	プリセット-E	プリセット-K	プリセット-Q	プリセット-W
125~130	プリセット-F	プリセット-L	プリセット-R	プリセット-X

[Drawing 3]

Figure 3 is a table showing the mapping of preset names to specific settings.

	AM	FM	インターネット プロバイダ	時間、国	表示言語
プリセット-A	AM1、AM2...	FM1、FM2...	NET-1	日本時間	日本語

[Drawing 4]

